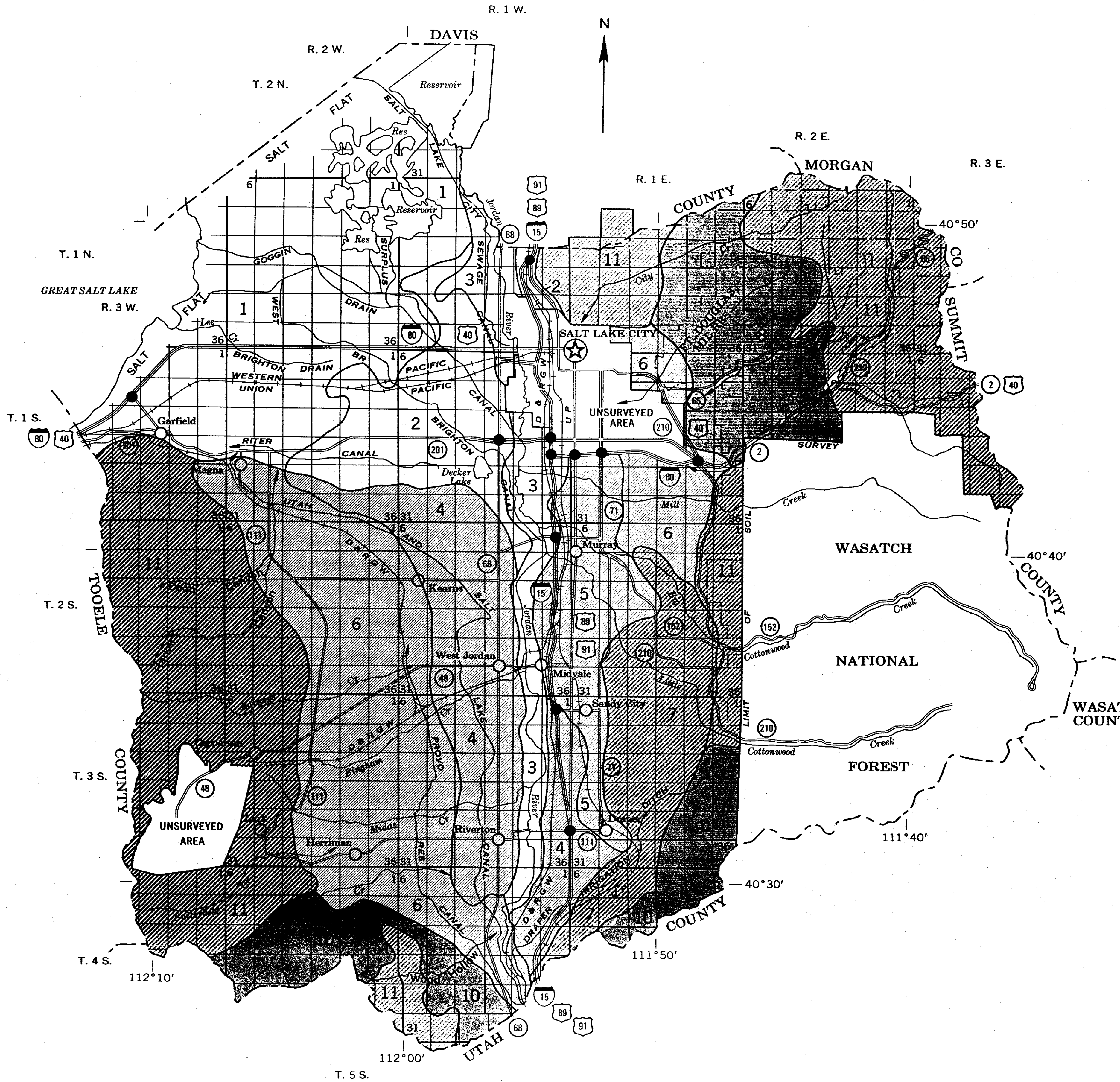
APPENDIX K

Soil Conservation Service Soil Maps (1974)



SOIL ASSOCIATIONS

DOMINANTLY NEARLY LEVEL AND GENTLY SLOPING, SOMEWHAT POORLY DRAINED TO VERY POORLY DRAINED SOILS ON LAKE PLAINS AND FLOOD PLAINS

1 — Saltair-Jordan-Lasil association: Poorly drained and somewhat poorly drained, strongly saline-alkali soils on lake plains

2 — Decker-Lasil-Terminal association: Somewhat poorly drained, moderately saline-alkali soils on lake plains

3 — Chipman-Magna-Ironton association: Poorly drained and very poorly drained soils on flood plains

DOMINANTLY NEARLY LEVEL TO SLOPING, EXCESSIVELY DRAINED TO POORLY DRAINED SOILS ON LAKE TERRACES AND ALLUVIAL FANS

4 — Bluffdale-Taylorsville-Hillfield-Bramwell association: Well-drained to poorly drained soils on low and intermediate terraces

5 — Kidman-Parleys-Welby association: Well-drained soils on intermediate terraces

6 — Bingham-Parleys association: Well-drained soils on high lake terraces

7 — Knutsen-Wasatch association: Somewhat excessively drained to excessively drained, gently sloping to steep soils on high lake terraces and fans

DOMINANTLY STRONGLY SLOPING TO VERY STEEP, WELL-DRAINED SOILS ON MOUNTAINS

8 — Emigration-Brad-Rock land association: Dominantly shallow soils and Rock land derived from mixed sedimentary rocks on low mountains

9 — Van Wagoner-Rock land association: Shallow soils and Rock land derived from granite rocks on low mountains

10 — Butterfield-Horrocks association: Dominantly moderately deep and deep, stony soils derived from andesite rocks on low mountains

11 — Harkers-Wallsburg-Lucky Star-Gappmayer association: Deep to shallow soils derived from mixed sedimentary rocks on high mountains

Compiled 1972

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

UTAH AGRICULTURAL EXPERIMENT STATION

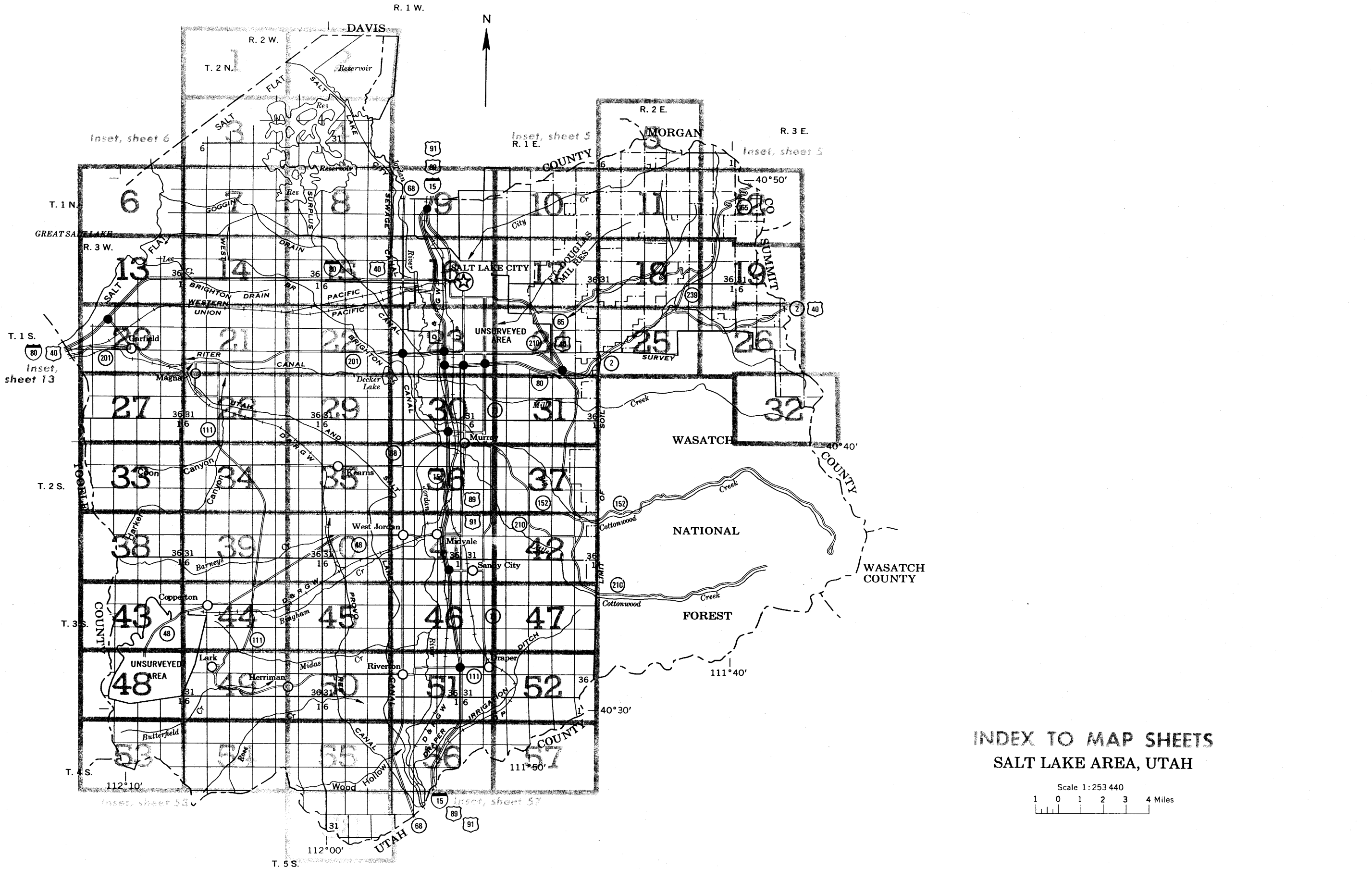
GENERAL SOIL MAP
SALT LAKE AREA, UTAH

Scale 1:253 440

1 0 1 2 3 4 Miles

This map is for general planning. It shows only the major soils and does not contain sufficient detail for operational planning.

FIGURE K—1



INDEX TO MAP SHEETS

SALT LAKE AREA, UTAH

Scale 1:253 440

1 0 1 2 3 4 Miles

FIGURE K—2

SOIL LEGEND

The first letter, always a capital, is the initial one of the soil name. The second letter is a capital if the mapping unit is one of the low intensity survey; otherwise it is a small letter. The third letter, always a capital A, B, C, D, E, F, or G, shows the slope. Most symbols without a slope letter are for nearly level soils, but some are for land types that have a considerable range in slope. A final number, 2, in the symbol shows that the soil is eroded.

HIGH INTENSITY

SYMBOL	NAME
BgA	Bingham loam, 1 to 3 percent slopes
BhA	Bingham gravelly loam, 1 to 3 percent slopes
BhB	Bingham gravelly loam, 3 to 6 percent slopes
BhC	Bingham gravelly loam, 6 to 10 percent slopes
BkC	Bingham extremely stony loam, 3 to 10 percent slopes
BlB	Bluffdale sandy loam, 1 to 3 percent slopes
BmB	Bluffdale silt loam, alkali, 1 to 3 percent slopes
BnA	Bluffdale silty clay loam, 0 to 1 percent slopes
BnB	Bluffdale silty clay loam, 1 to 3 percent slopes
BrB	Bramwell silt loam, strongly saline-alkali, 0 to 3 percent slopes
BsA	Bramwell silty clay loam, 0 to 1 percent slopes
BsB	Bramwell silty clay loam, 1 to 3 percent slopes
Bt	Bramwell silty clay loam, hardpan variant
BuE	Butterfield soils, 0 to 25 percent slopes
Ch	Chipman silty clay loam
Ck	Chipman silty clay loam, saline-alkali
Cl	Chipman silty clay loam, saline-alkali, gravelly substratum
De	Decker fine sandy loam
Df	Decker fine sandy loam, drained
Dk	Decker loam, strongly saline-alkali
Dr	Draper sandy loam
Du	Dumps
Gp	Gravel pits
HaB	Hans silt loam, 1 to 3 percent slopes
HaC	Hans silt loam, 3 to 6 percent slopes
HbA	Harrisville silt loam, 0 to 1 percent slopes
HcB	Harrisville silty clay loam, 1 to 3 percent slopes
HeB	Harrisville silty clay loam, gravelly substratum, 1 to 3 percent slopes
HfC	Hillfield sandy loam, 2 to 6 percent slopes
HlA	Hillfield loam, 0 to 1 percent slopes
HlB	Hillfield loam, 1 to 3 percent slopes
HlC	Hillfield loam, 3 to 6 percent slopes
HtF2	Hillfield-Taylorsville complex, 6 to 30 percent slopes, eroded
Ir	Ironton loam
Jo	Jordan silty clay loam
KaB	Kearns silt loam, 1 to 3 percent slopes
KaC	Kearns silt loam, 3 to 6 percent slopes
KdA	Kidman very fine sandy loam, 0 to 1 percent slopes
KdB	Kidman very fine sandy loam, 1 to 3 percent slopes
KdC	Kidman very fine sandy loam, 3 to 6 percent slopes
KfA	Kidman very fine sandy loam, silty clay loam substratum, 0 to 1 percent slopes
KfB	Kidman very fine sandy loam, silty clay loam substratum, 1 to 3 percent slopes
KnA	Knutsen coarse sandy loam, 1 to 3 percent slopes
KoB	Knutsen gravelly coarse sandy loam, 1 to 6 percent slopes
KoC	Knutsen gravelly coarse sandy loam, 6 to 10 percent slopes
KrA	Knutsen cobbly coarse sandy loam, 1 to 3 percent slopes

HIGH INTENSITY

SYMBOL	NAME
KsF2	Knutsen-Preston complex, 10 to 30 percent slopes, eroded
LaA	Lakewin sandy loam, 0 to 1 percent slopes
LaC	Lakewin sandy loam, 1 to 6 percent slopes
LbC	Lakewin gravelly loam, 3 to 6 percent slopes
LcA	Lasil silt loam, 0 to 2 percent slopes
LdA	Lasil silt loam, drained, 0 to 1 percent slopes
LdB	Lasil silt loam, drained, 1 to 3 percent slopes
Lk	Leland fine sandy loam
Lo	Loamy borrow pits
Ma	Made land
Mc	Magna silty clay
Mg	Magna silty clay, peaty surface
Mn	Mine wash
Mu	Mixed alluvial land
PaA	Parleys loam, 0 to 3 percent slopes
PeA	Parleys silt loam, 0 to 3 percent slopes
PeB	Parleys silt loam, 3 to 6 percent slopes
PfC	Pharo coarse sandy loam, 2 to 6 percent slopes
PgB	Pleasant Grove coarse sandy loam, 2 to 6 percent slopes
PhB	Pleasant Grove gravelly loam, 2 to 6 percent slopes
PrD	Preston sand, 1 to 10 percent slopes
PrF	Preston sand, 10 to 30 percent slopes
PsB	Preston sandy loam, 1 to 3 percent slopes
Re	Red Rock silt loam
Sa	Saltair silty clay loam
Sd	Sandy alluvial land
Se	Sandy borrow pits
St	Stony alluvial land
TaA	Taylorsville silty clay loam, 0 to 1 percent slopes
TaB	Taylorsville silty clay loam, 1 to 3 percent slopes
TaC	Taylorsville silty clay loam, 3 to 6 percent slopes
TbB	Taylorsville silty clay loam, gravelly substratum, 1 to 3 percent slopes
Te	Terminal silt loam
TtA	Timpanogos sandy loam, 1 to 3 percent slopes
TtC	Timpanogos sandy loam, 6 to 10 percent slopes
TuB	Timpanogos loam, 3 to 6 percent slopes
Tv	Trenton silt loam
WgD	Wasatch loamy coarse sand, 1 to 10 percent slopes
WgE	Wasatch loamy coarse sand, 10 to 25 percent slopes
WmA	Welby silt loam, 0 to 1 percent slopes
WmB	Welby silt loam, 1 to 3 percent slopes

LOW INTENSITY 1/

SYMBOL	NAME
AGG	Agassiz association, very steep
BAG	Baird Hollow loam, 30 to 60 percent slopes
BCG	Brad very rocky loamy sand, 40 to 80 percent slopes
BDG	Bradshaw gravelly sandy loam, 40 to 70 percent slopes

LOW INTENSITY 1/

SYMBOL	NAME
BEG	Bradshaw-Agassiz association, steep
BFF	Butterfield extremely stony loam, 5 to 50 percent slopes
BVF	Butterfield association, moderately steep
CA	Clayey terrace escarpments
DAG	Dateman gravelly loam, 40 to 70 percent slopes
DBG	Daybell gravelly silt loam, 40 to 70 percent slopes
DCG	Deer Creek loam, 30 to 60 percent slopes
DGG	Deer Creek-Picayune association, steep
DPD	Dry Creek-Copperton association, sloping
DPE	Dry Creek-Copperton association, moderately steep
DRD	Dry Creek soils, 3 to 15 percent slopes
EMG	Emigration very cobbly loam, 40 to 70 percent slopes
FGG	Fitzgerald gravelly loam, 40 to 70 percent slopes
FOG	Foxol-St. Marys association, very steep
GEG	Gappmayer very cobbly loam, 30 to 60 percent slopes
GGG	Gappmayer-Wallsburg association, very steep
GU	Gullied land
HDF	Harkers-Dry Creek association, moderately steep
HGG	Harkers-Wallsburg association, steep
HHF	Harkers soils, 6 to 40 percent slopes
HKF	Henefer-Harkers association, moderately steep
HNF	Henefer-Horrocks complex, 5 to 50 percent slopes
HWF	Horrocks extremely stony loam, 5 to 50 percent slopes
HXF	Horrocks-Little Pole association, steep
HYG	Hourglass loam, 30 to 60 percent slopes
KBG	Knutsen-Bradshaw association, very steep
LSG	Lucky Star gravelly loam, 40 to 60 percent slopes
PCG	Picayune association, steep
RO	Rock land
SC	Sandy terrace escarpments
SMG	St. Marys-Foxol association, very steep
SO	Stony land
SP	Stony terrace escarpments
VGG	Van Wagoner gravelly sandy loam, 40 to 70 percent slopes
VRG	Van Wagoner extremely rocky sandy loam, 40 to 70 percent slopes
WAG	Wallsburg very cobbly loam, 30 to 70 percent slopes

1/ The composition of these units is more variable than that of the others in the Survey Area but has been controlled well enough to interpret for the expected use of the soils concerned.

FIGURE K—3

SALT LAKE AREA, UTAH

CONVENTIONAL SIGNS

WORKS AND STRUCTURES

Highways and roads

- Divided
- Good motor
- Poor motor
- Trail

Highway markers

- National Interstate
- U. S.
- State or county

Railroads

- Single track
- Multiple track
- Abandoned

Bridges and crossings

- Road
- Trail
- Railroad
- Ferry
- Ford
- Grade
- R. R. over
- R. R. under
- Tunnel
- Buildings
- School
- Church
- Mine and quarry
- Gravel pit
- Flume
- Pipeline
- Cemetery
- Dams
- Levee
- Tanks
- Well, oil or gas
- Forest fire or lookout station
- Located object

BOUNDARIES

- National or state
- County
- Limit of soil survey
- Reservation
- Land grant
- Small park, cemetery, airport
- Land survey division corners

DRAINAGE

Streams, double-line

- Perennial
- Intermittent

Streams, single-line

- Perennial
- Intermittent
  - Crossable with tillage implements
  - Not crossable with tillage implements
  - Unclassified
- Canals and ditches

Lakes and ponds

- Perennial
- Intermittent
- Spring
- Marsh or swamp
- Wet spot
- Drainage end or alluvial fan

RELIEF

Escarpments

- Bedrock
- Other
- Prominent peak

Depressions

	Large	Small
Crossable with tillage implements		
Not crossable with tillage implements		
Contains water most of the time		

SOIL SURVEY DATA

- Soil boundary and symbol
- Gravel
- Stoniness
  - Stony
  - Very stony
- Rock outcrops
- Chert fragments
- Clay spot
- Sand spot
- Gumbo or scabby spot
- Made land
- Severely eroded spot
- Blowout, wind erosion
- Gully
- Strongly saline alkali spot
- Strongly alkali spot

FIGURE K—4

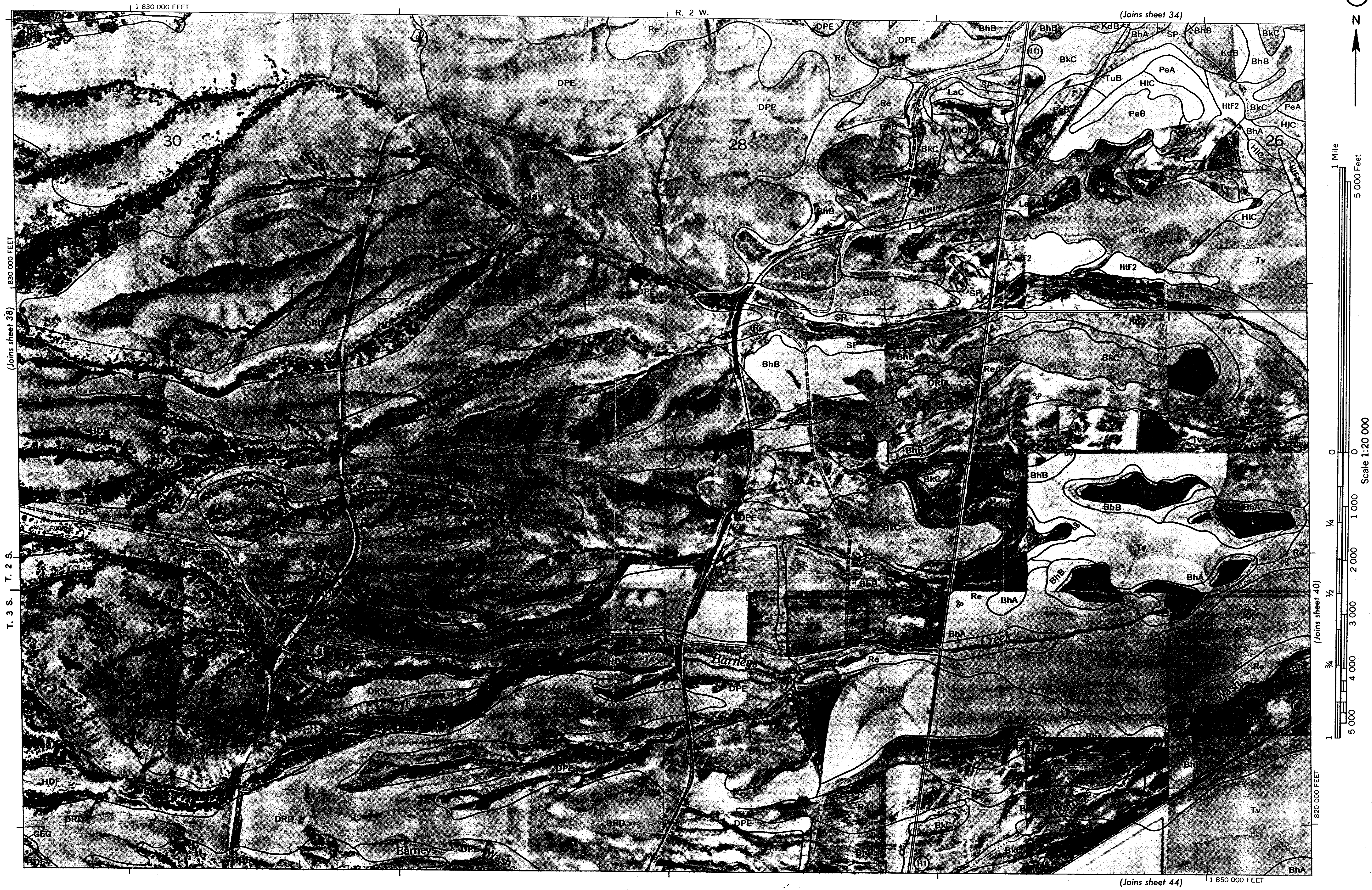

1 830 000 FEET
R. 2 W.
(Joins sheet 34)
830 000 FEET
(Joins sheet 38)
T. 2 S.
T. 3 S.
(Joins sheet 40)
820 000 FEET
(Joins sheet 44)
1 850 000 FEET
30
29
28
26
Hollow
MINING
Barneys
Creek
Wash
DPE
DRD
HDF
GEG
BhB
BhA
BkC
Re
SP
LaC
HIC
TuB
PeA
PeB
HtF2
KdB
Tv
N
1 Mile
5 000 Feet
Scale 1:20 000

FIGURE K—5

SALT LAKE AREA, UTAH — SHEET NUMBER 40

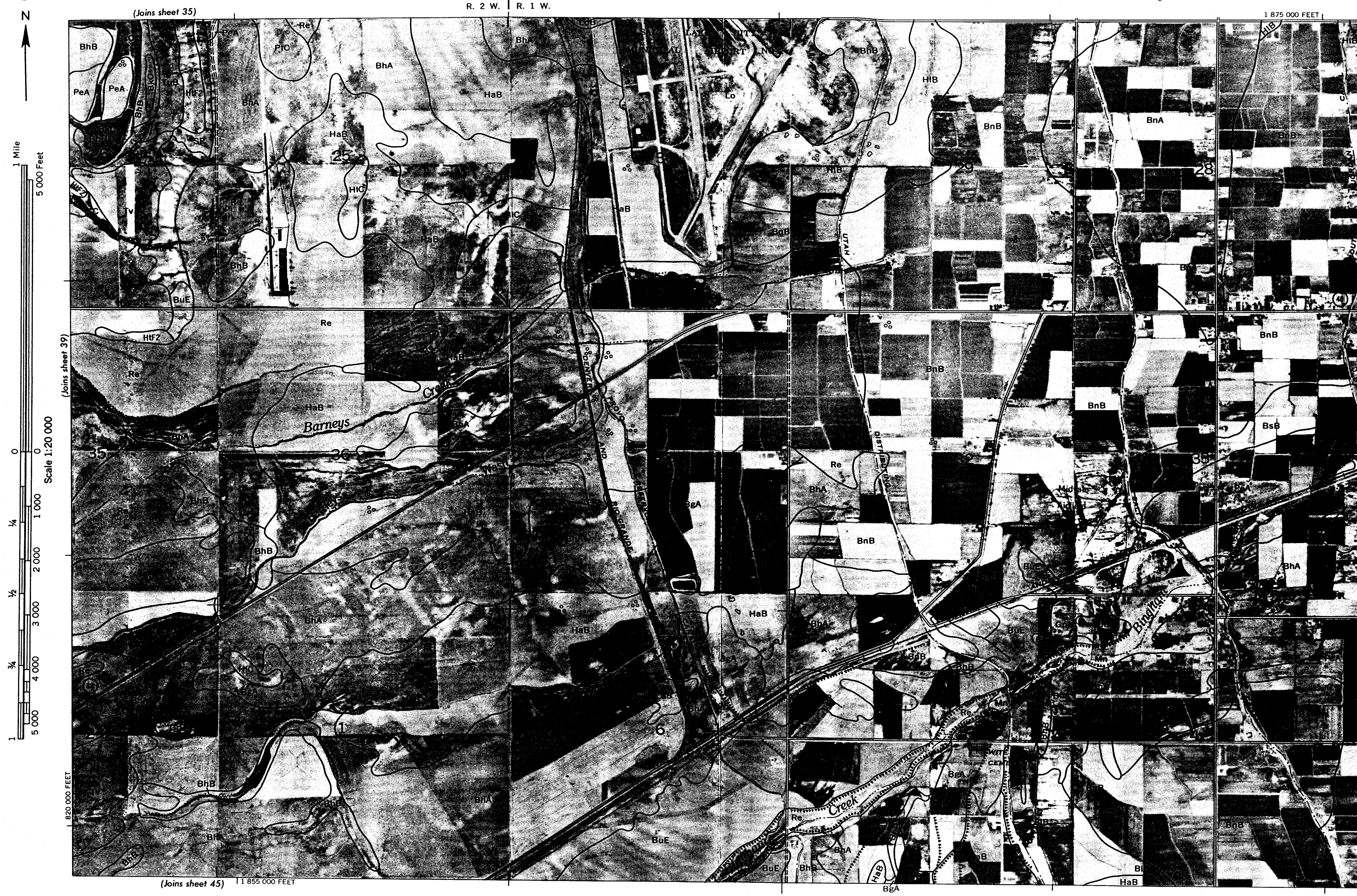


FIGURE K—6

SALT LAKE AREA, UTAH — SHEET NUMBER 41

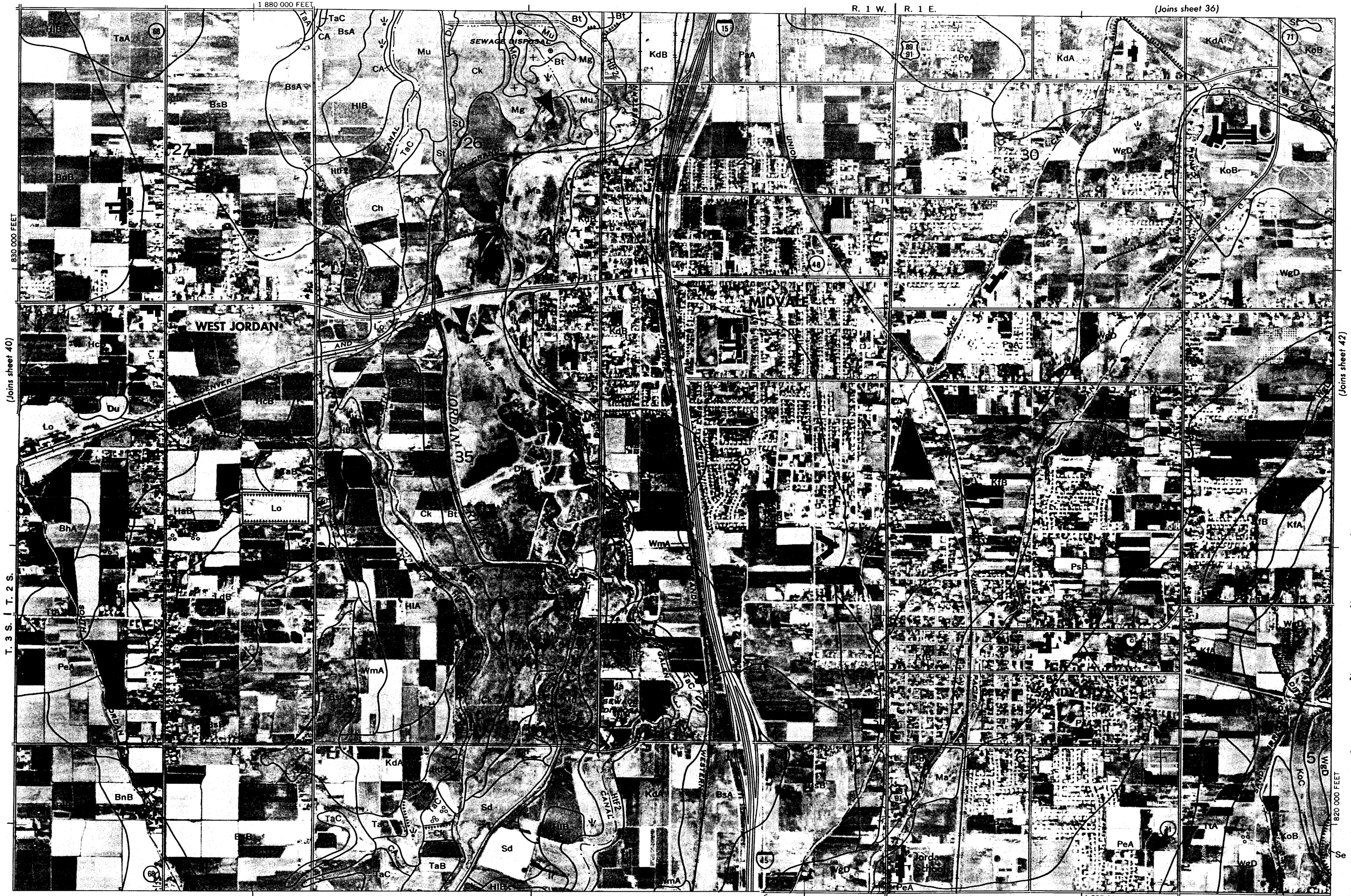


FIGURE K—7

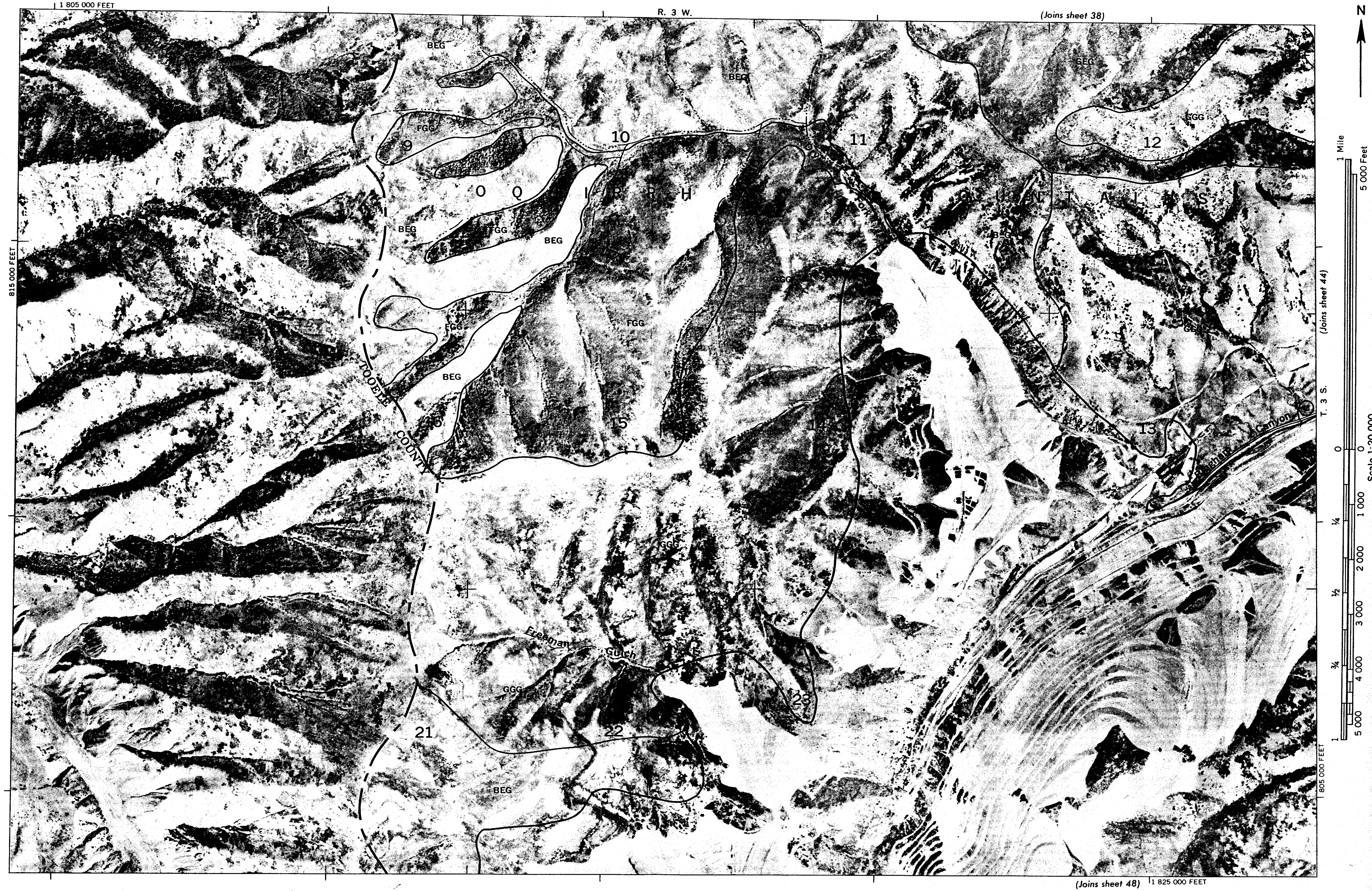

1 805 000 FEET
R. 3 W.
(Joins sheet 38)
815 000 FEET
(Joins sheet 44)
T. 3 S.
(Joins sheet 48)
805 000 FEET
1 825 000 FEET
TOOELE COUNTY
O Q U I R R H M O U N T A I N S
Freeman Gulch
Bingham Canyon
BEG
FGG
GGG
GEG
9
10
11
12
13
14
15
16
21
22
23
N
1 ¾ ½ ¼ 0 1 Mile
5 000 4 000 3 000 2 000 1 000 0 5 000 Feet
Scale 1:20 000

FIGURE K—8

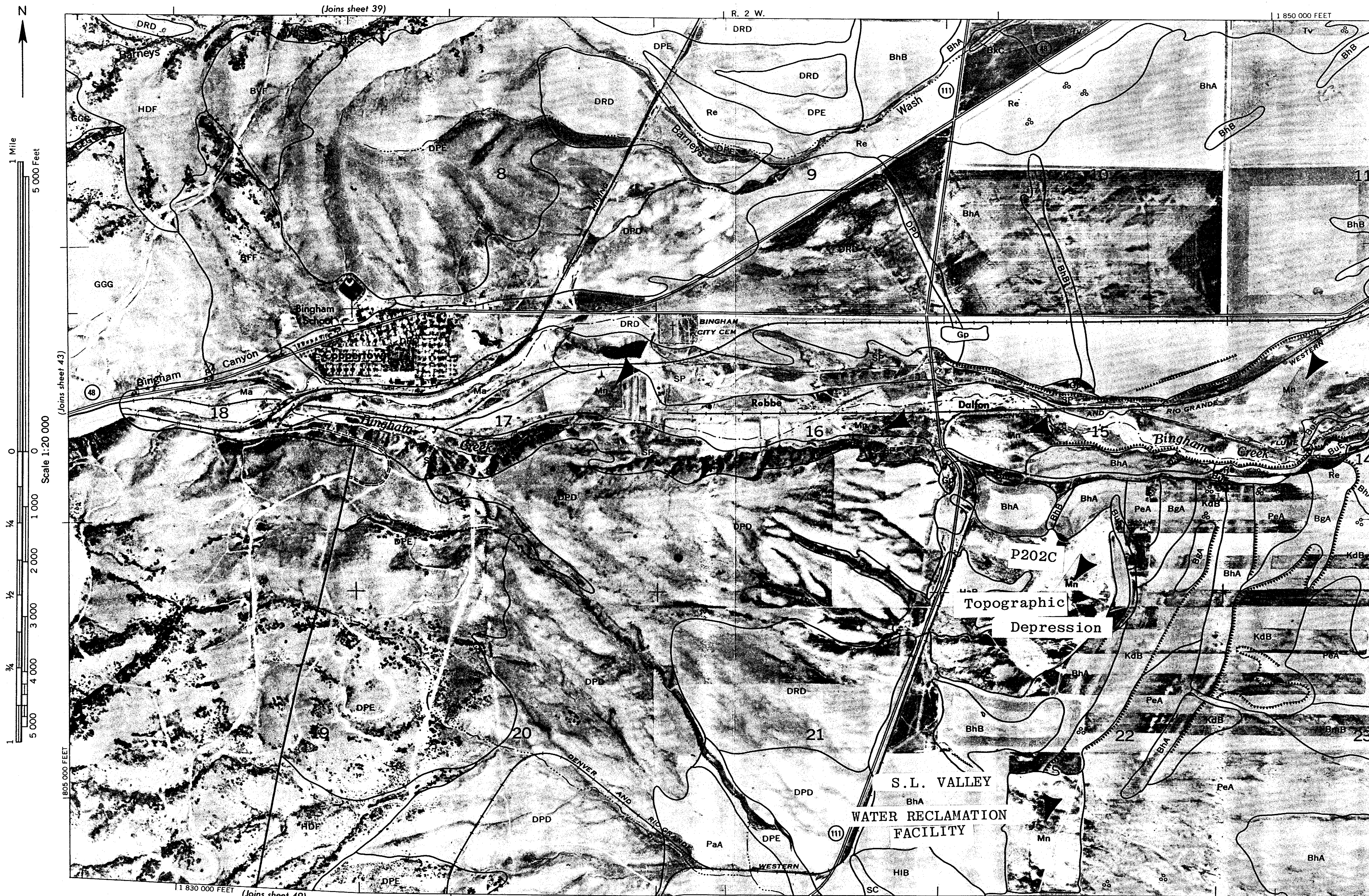

44
N
1 Mile
5 000 Feet
Scale 1:20 000
(Joins sheet 39)
(Joins sheet 43)
(Joins sheet 45)
(Joins sheet 49)
R. 2 W.
T. 3 S.
1 850 000 FEET
815 000 FEET
805 000 FEET
1 830 000 FEET
Bingham Canyon
Bingham School
Copperton
BINGHAM CITY CEM
Bingham Creek
Barneys Wash
Robbe
Dalton
DENVER AND RIO GRANDE WESTERN
P202C
Topographic Depression
S.L. VALLEY WATER RECLAMATION FACILITY

FIGURE K—9

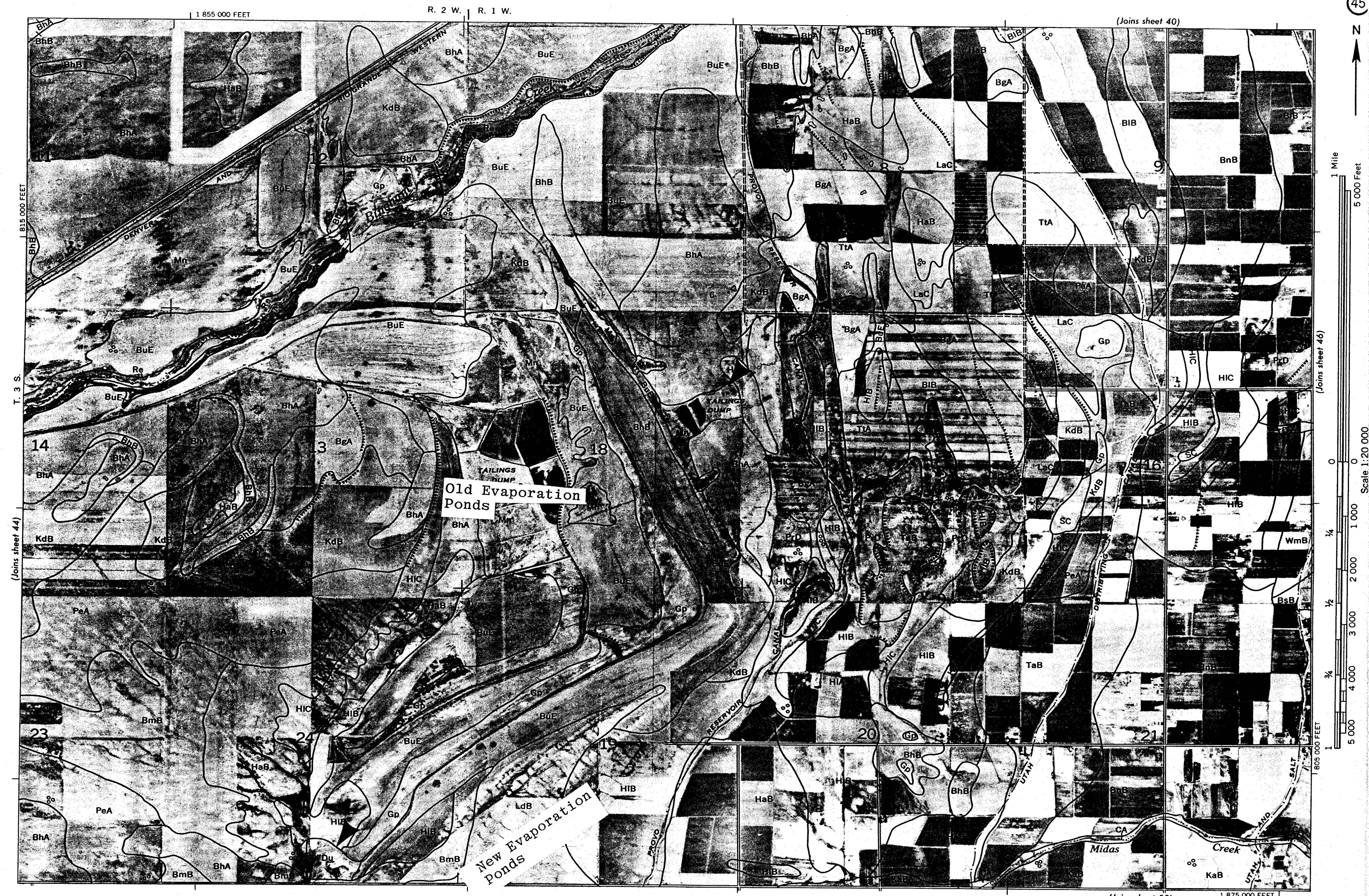

(Joins sheet 44)
(Joins sheet 40)
(Joins sheet 46)
(Joins sheet 50)
T. 3 S.
R. 2 W.
R. 1 W.
1 855 000 FEET
815 000 FEET
805 000 FEET
1 875 000 FEET
Old Evaporation Ponds
New Evaporation Ponds
TAILINGS DUMP
DENVER AND RIO GRANDE WESTERN
PROVO RESERVOIR CANAL
UTAH DISTRIBUTING CANAL
UTAH AND SALT
Midas Creek
Bingham Creek
1 Mile
5 000 Feet
Scale 1:20 000
N
45

FIGURE K— 10

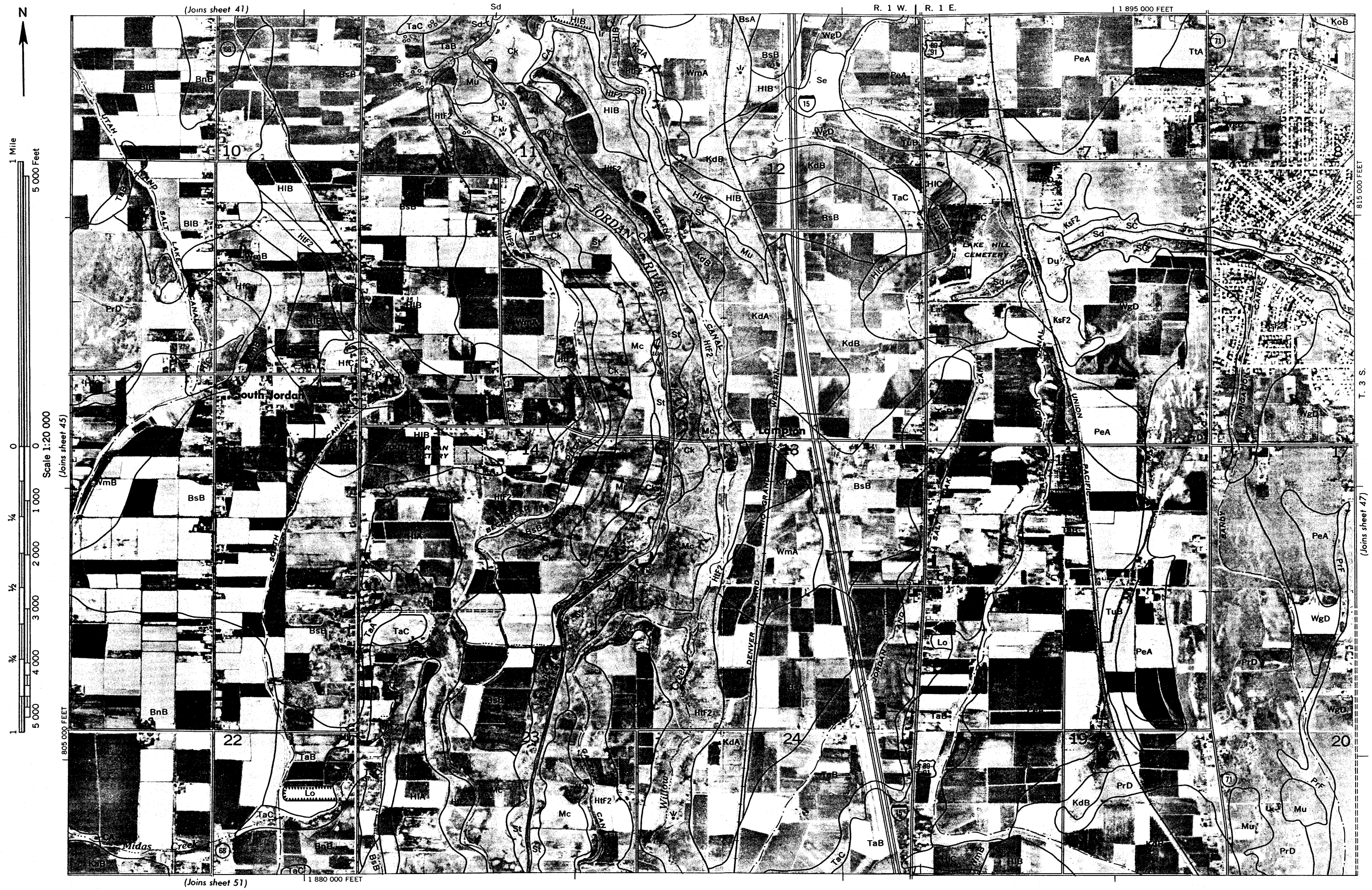

46
N
(Joins sheet 41)
Sd
R. 1 W.
R. 1 E.
1 895 000 FEET
815 000 FEET
T. 3 S.
1 Mile
5 000 Feet
Scale 1:20 000
(Joins sheet 45)
1 805 000 FEET
1 880 000 FEET
(Joins sheet 51)
(Joins sheet 47)
South Jordan
Lampton
LAKE HILL CEMETERY
Midas Creek
Willow Creek
JORDAN RIVER
SALT LAKE CANAL
UTAH & SALT LAKE CANAL
DENVER & RIO GRANDE WESTERN
SOUTH JORDAN CANAL
BINGHAM & GARFIELD
SANDY
UNION PACIFIC
10
11
12
7
8
14
13
17
22
23
24
19
20
15
68
88
80
91
71
TaC
Sd
TaB
Ck
Mu
HtF2
HIB
HIC
WmA
BsA
BsB
WgD
PeA
TtA
KoB
KdB
TuB
Se
HfC
BnB
PrD
KsF2
Du
SC
Lo
KdA
Mc
St
HtA
Prf

FIGURE K—11


N
1 Mile
5 000 Feet
0
0
Scale 1:20 000
¼
1 000
½
2 000
¾
3 000
4 000
1
5 000
(Joins sheet 43)
R. 3 W.
1 825 000 FEET
800 000 FEET
790 000 FEET
1 805 000 FEET
(Joins sheet 53)
(Joins sheet 49)
T. 4 S.
T. 3 S.
28
27
33
4
3
2
1
30
TOOELE COUNTY
Clipper Peak
BEG
GEG
GGG
WAG
HHF
Du
OQUIRRH MOUNTAINS

FIGURE K—12

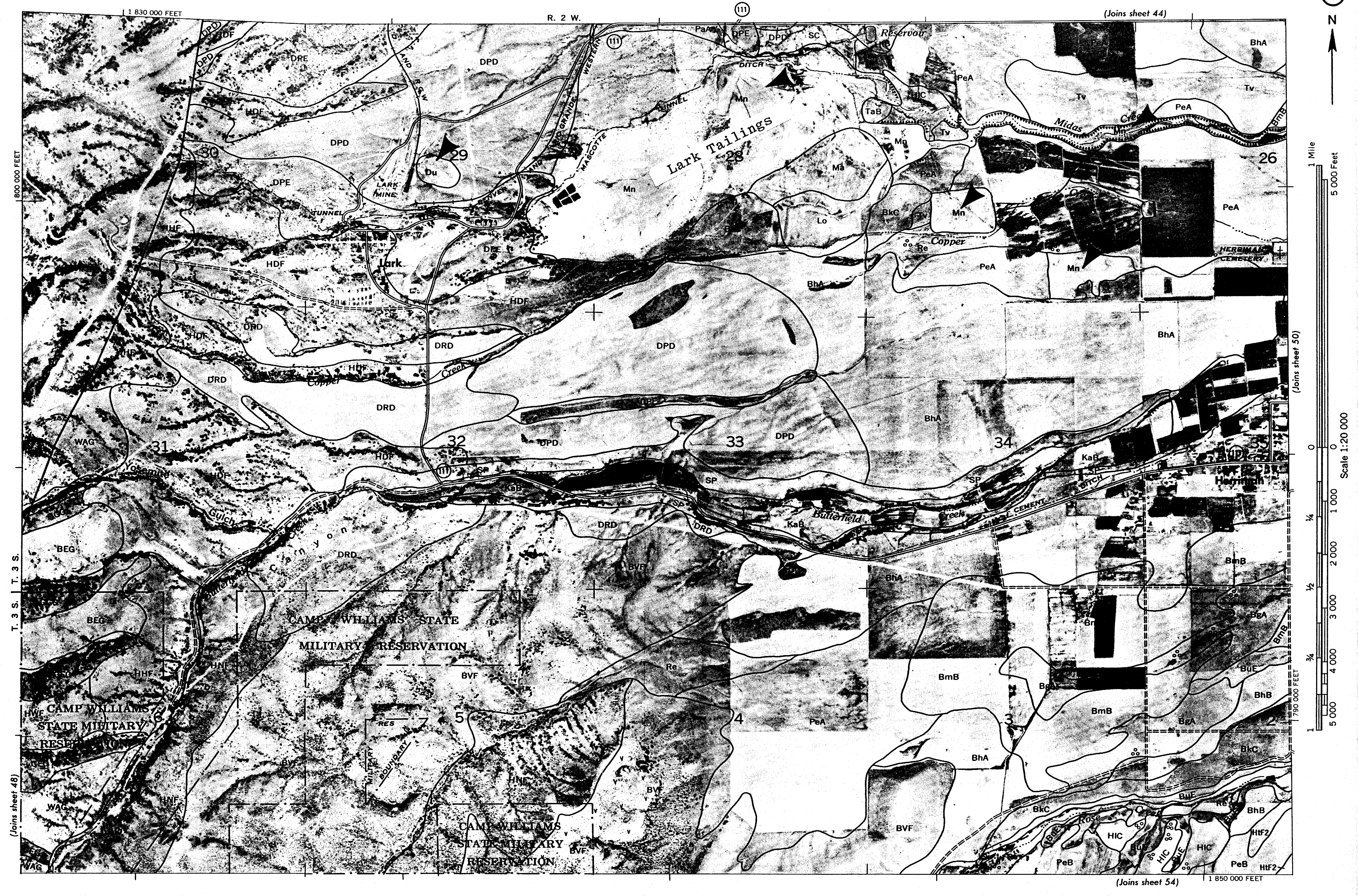

(Joins sheet 44)
(Joins sheet 48)
(Joins sheet 50)
(Joins sheet 54)
1 830 000 FEET
800 000 FEET
790 000 FEET
1 850 000 FEET
R. 2 W.
T. 3 S.
Lark Tailings
Lark
LARK MINE
TUNNEL
DITCH
Reservoir
Midas Creek
Copper Creek
Butterfield Creek
Yosemite Gulch
Canyon
MASCOTTE TUNNEL
DENVER AND RIO GRANDE WESTERN
CEMENT DITCH
HERRIMAN CEMETERY
Herriman
CAMP WILLIAMS STATE MILITARY RESERVATION
MILITARY RES BOUNDARY
Rose Creek
N
1 Mile
5 000 Feet
Scale 1:20 000

FIGURE K-13

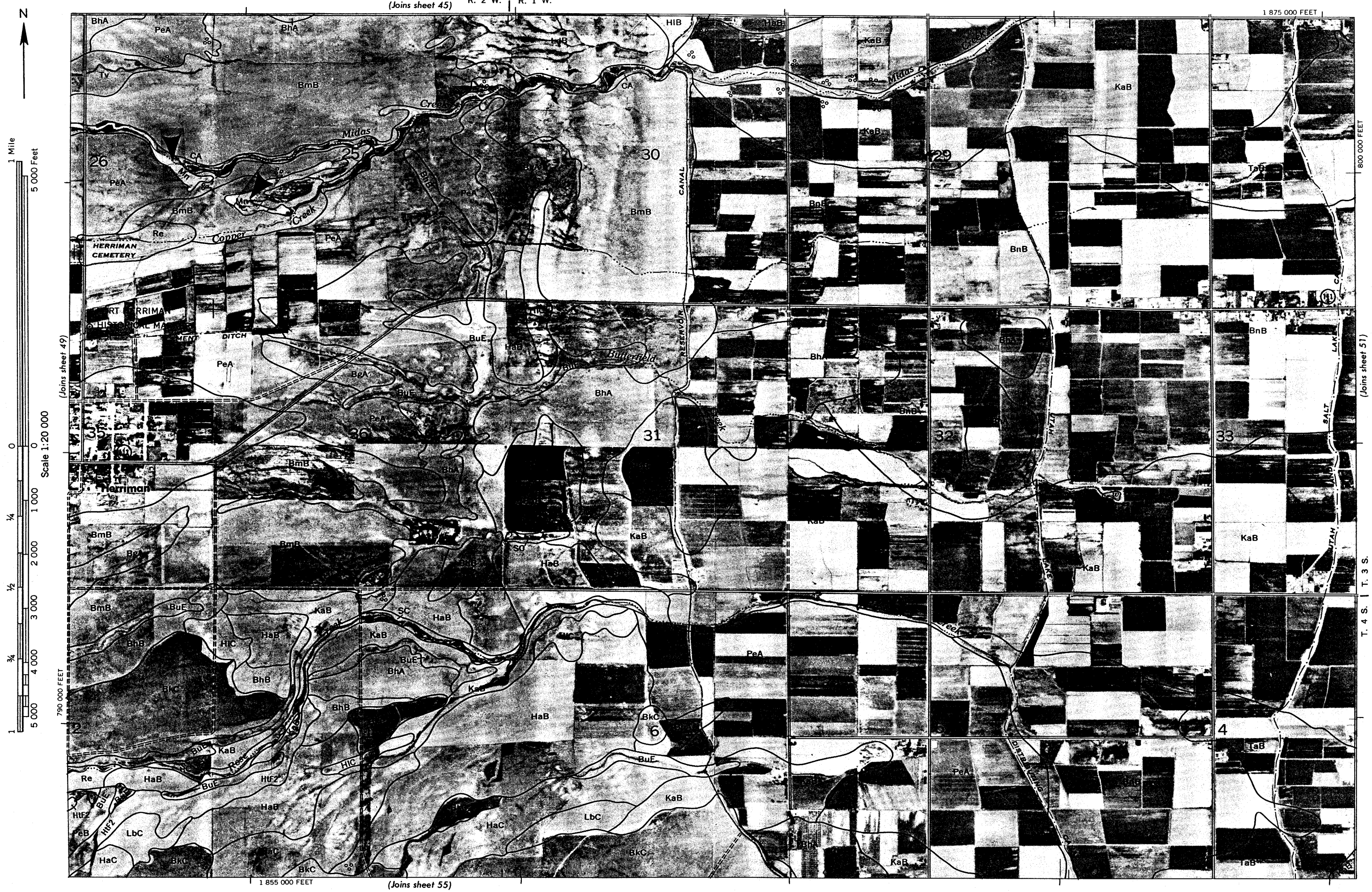

(50)
N
(Joins sheet 45)
R. 2 W.
R. 1 W.
1 875 000 FEET
800 000 FEET
790 000 FEET
1 855 000 FEET
(Joins sheet 49)
(Joins sheet 51)
(Joins sheet 55)
T. 4 S.
T. 3 S.
1 Mile
5 000 Feet
Scale 1:20 000
Herriman
HERRIMAN CEMETERY
Midas Creek
Copper Creek
Butterfield RESERVOIR
CANAL
DITCH
SALT LAKE
UTAH
BhA
PeA
BmB
HIB
KaB
BnB
BuE
HaB
BeA
HtF2
LbC
HaC
BkC
HIC
BhB
TaB
26
25
30
29
35
36
31
32
33
2
6
5
4

FIGURE K—14

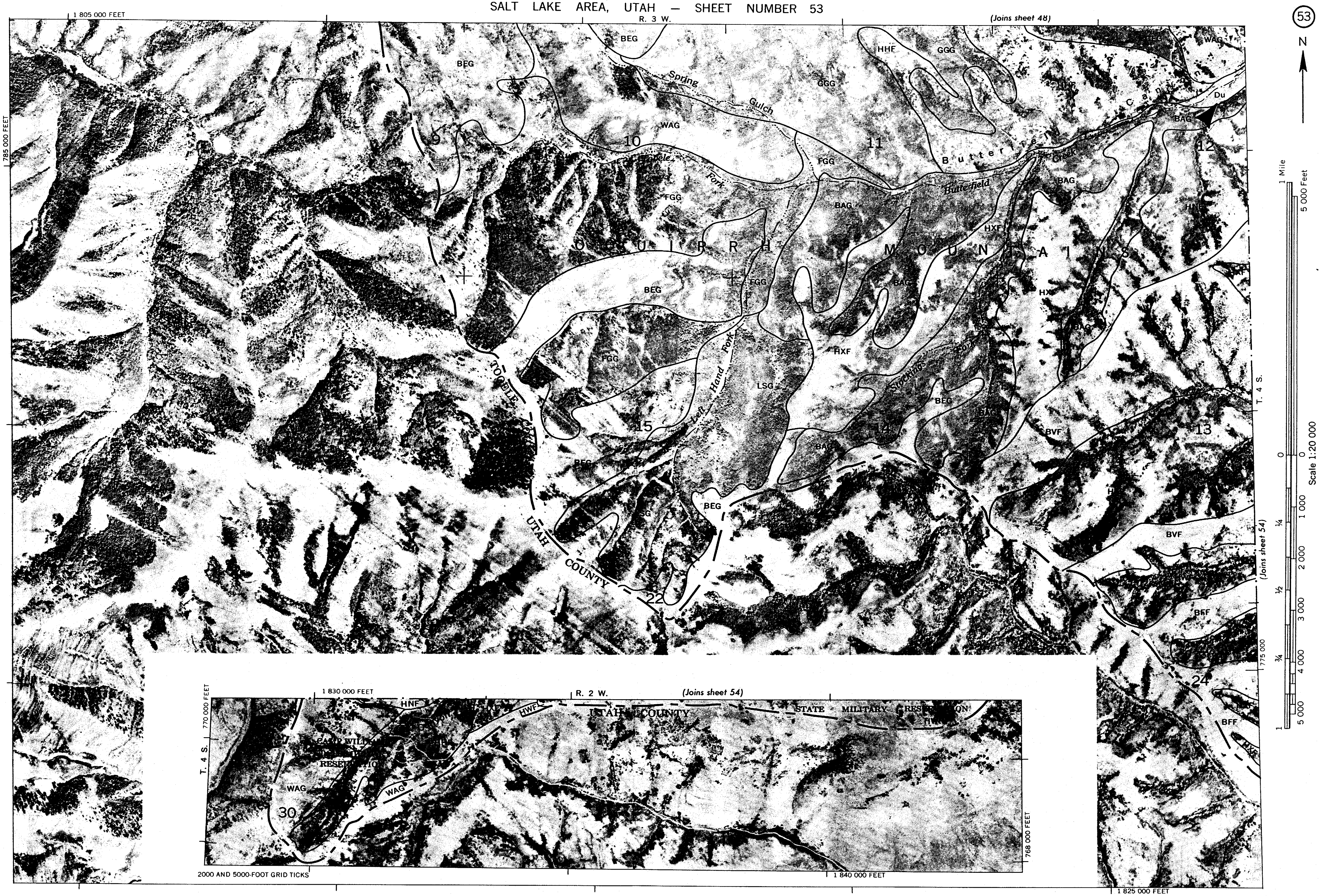

1 805 000 FEET
R. 3 W.
(Joins sheet 48)
785 000 FEET
BEG
Spring
Gulch
GGG
HHF
WAG
Du
BAG
9
10
11
12
13
14
15
22
24
30
Fork
FGG
Butterfield
Butterfield
Creek
Canyon
BAG
HXF
OQUIRRH
MOUNTAINS
LSG
Left Hand Fork
Stockings
TOOELE
UTAH
COUNTY
BVF
BFF
T. 4 S.
(Joins sheet 54)
775 000
1 825 000 FEET
1 830 000 FEET
R. 2 W.
HNF
HWF
UTAH COUNTY
STATE MILITARY RESERVATION
CAMP WILLIAMS
770 000 FEET
768 000 FEET
1 840 000 FEET
2000 AND 5000-FOOT GRID TICKS
1 Mile
5 000 Feet
Scale 1:20 000
N
53

FIGURE K—15

SALT LAKE AREA, UTAH — SHEET NUMBER 54

FIGURE K—16